METHOD FOR FAST COMPILATION OF PREVERIFIED
JAVA BYTECODE TO HIGH QUALITY NATIVE MACHINE CODE

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Abstract of Disclosure

[0029.]The present invention is a new method and apparatus to perform fast compilation of platform independent bytecode instruction listings into high quality machine code in a single sequential pass. More specifically, the present invention creates

10   a new method and apparatus for the translation of platform neutral bytecode into high quality machine code in a single sequential pass in which information from the preceding instruction translation is used to mimic an optimizing compiler without the extensive memory and time requirements. Where the preceding instruction translation cannot be used due to no direct control flow, information from comprehensive stack maps is then

15   used.